

## Section 976

**CONCRETE FAST SET REPAIR MATERIALS  
BOND (SLANT/SHEAR) TEST****976.01 Test Specimens**

Each set of three specimens shall be prepared by sawing (cutting) a concrete 4" x 8" cylinder specimen at a 45 degree angle through the long axis. The three concrete samples shall be placed in a 4" x 8" cylinder molds and the 45 degree angle face (cut) shall be pre-wet. Mix the fast set material according to the manufacturers recommendations and place this material in the mold on top of the two existing concrete sample. Rod and strike off per Utah Department of Transportation's test procedure for making concrete cylinders. Specimens shall be allowed to set and then broken at 4, 8, and 24 hours. These specimens of new and old concrete shall then be tested by the same procedure as the compressive test. Pounds per square inch shall be determined by calculating the area of the ellipse and dividing the pounds pressure by this area.

Ellipse Area = .7854 times long diameter times short diameter.

**976.02 Acceptance Requirements**

The resulting slant/shear bond test on the three specimens shall have a minimum value of 1,000 pounds per square inch.